US Army Corps of Engineers
District: CEMVN

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Data Constraints: Hydrographic survey data is subject to change due to environmental factors such as weather, tides, tidal current activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the hydrographic survey data after the date of survey publication. This data is intended for U. S. Army Corps of Engineers' internal use. Private companies should contact a qualified survey vessel.

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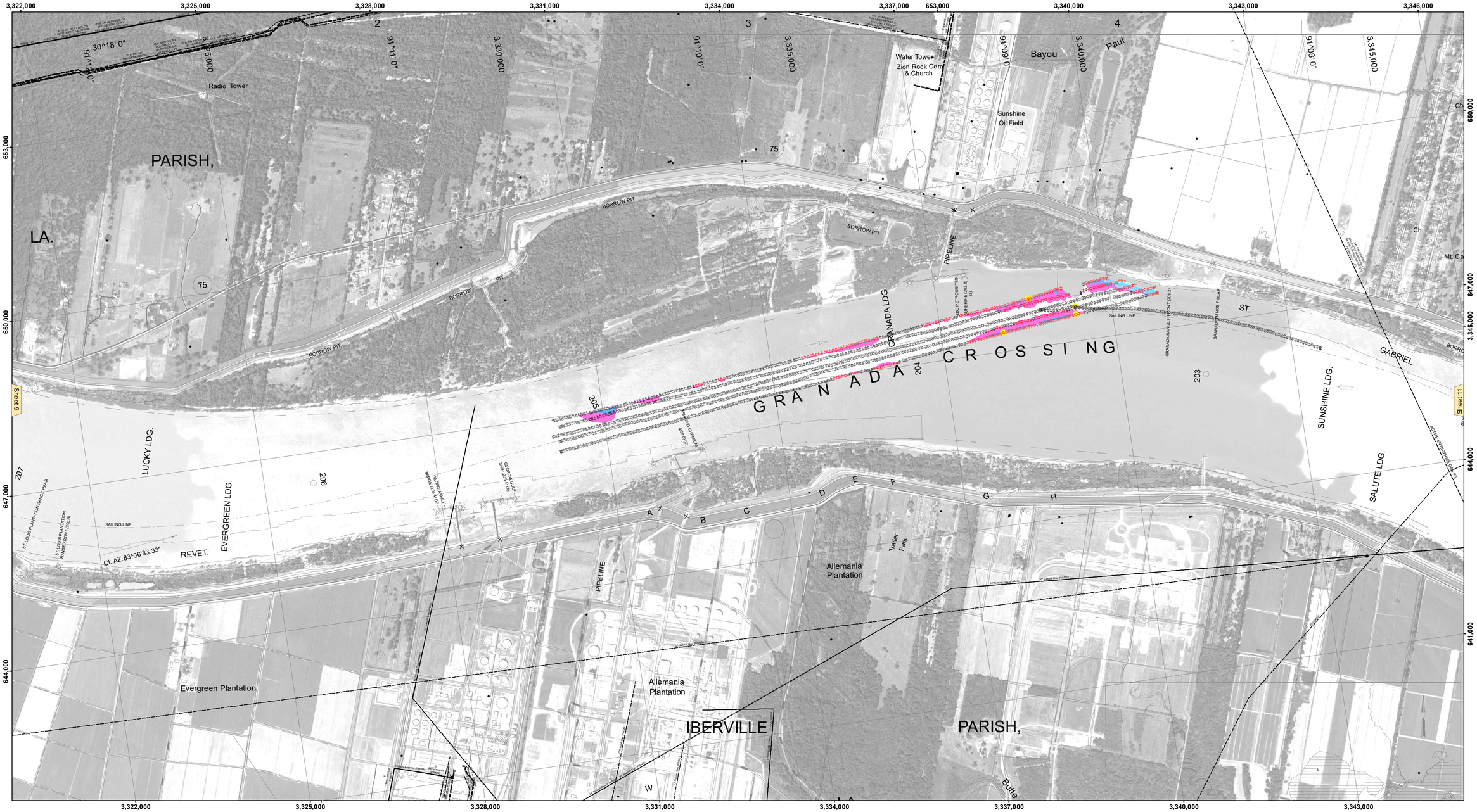
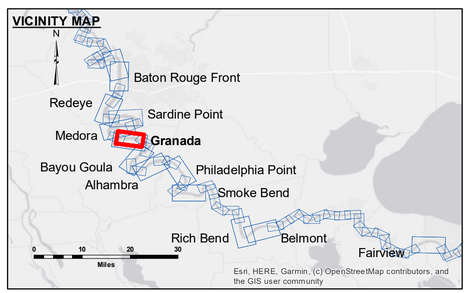
The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.





LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- As-built Pipeline/Cable
- Unconfirmed Pipeline/Cable
- Project Depth Contour
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Borrow Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy
- 0' and above
- 0' to -5'
- -5' to -10'
- -10' to -20'
- -20' to -30'
- -30' to -35'
- -35' to -40'
- -40' to 45'
- -45' and below

N W E S

Feet
0 500 1,000 1,500 2,000 2,500

LWRP:	1.9
Gage Reading:	BR:13.8 D:7.7 USED:11.00 NAVD
Sea Conditions:	CALM
Vessel Name:	OB-189
Survey Type:	CONDITION
Sounding Frequency***:	HIGH

NOTES:

Horizontal Coordinate System:
North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.

Vertical Datum:
Soundings are shown in feet and indicate depths below Low Water Reference Plane 2007 (NAVD).

Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.

The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.

2015 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

Reference is N.O.A.A. Navigation Chart No. 11370.

** Shoalest Sounding per Quarter per Reach.

*** High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

Submitted:	
Surveyed By:	RYLAND/HOSHMAN
Plotted By:	BD
Checked By:	AO
Recommended: Chief, Survey Section	
Approved: Chief, Waterways Maintenance Section	

MISSISSIPPI RIVER - B.R. TO GULF
GRANADA CROSSING
MD_10_GRA_20190926_CS
26 September 2019

Sheet Reference Number
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